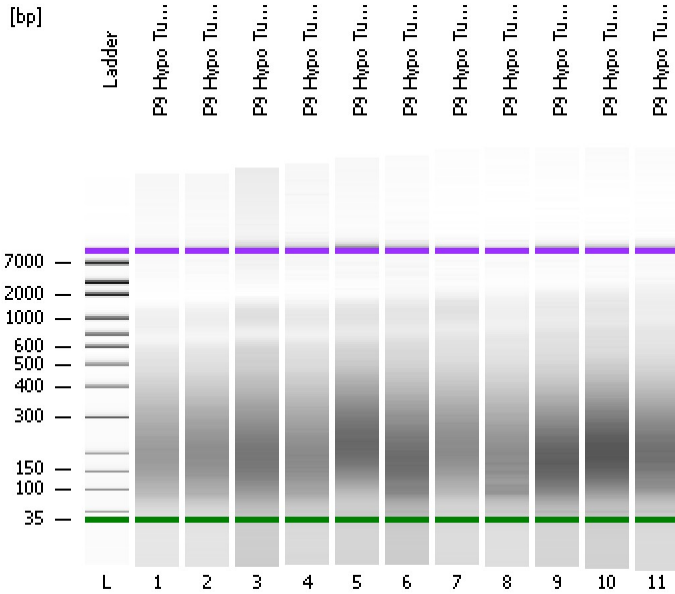


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
Modified: 9/8/2016 10:34:56 AM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

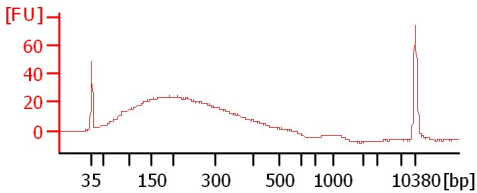
#### Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

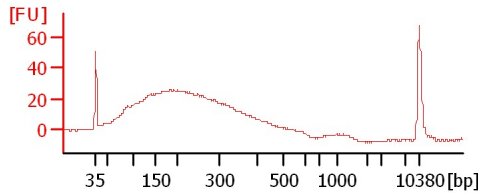
#### Chip Information:

Chip Lot #:      Reagent Kit Lot #:      Chip Comments:

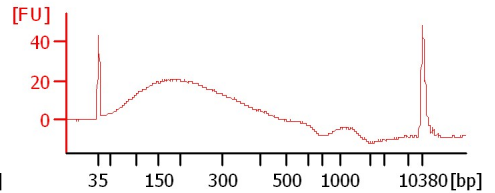
P9 Hypo Tube 11



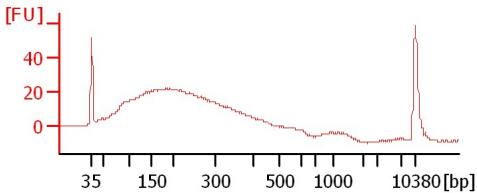
P9 Hypo Tube 12



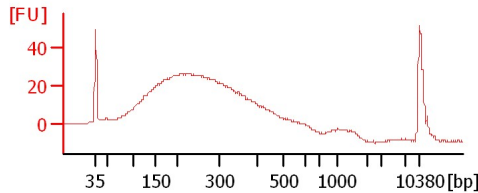
P9 Hypo Tube 13



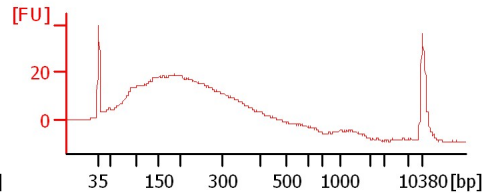
P9 Hypo Tube 14



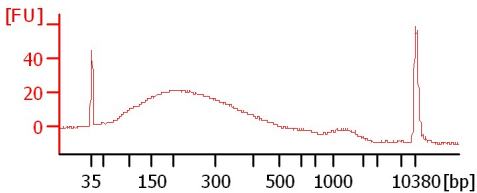
P9 Hypo Tube 15



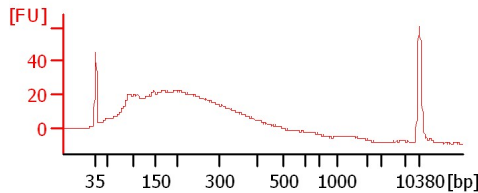
P9 Hypo Tube 16



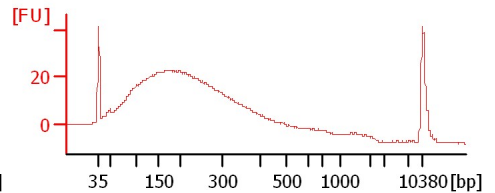
P9 Hypo Tube 17



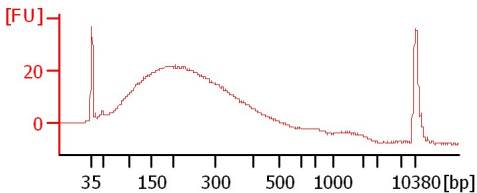
P9 Hypo Tube 18



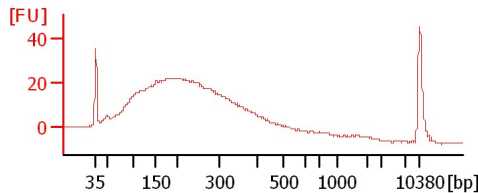
P9 Hypo Tube 19



P9 Hypo Tube 20



P9 Hypo Tube 7



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
Modified: 9/8/2016 10:34:56 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P9 Hypo Tube 11		<input type="checkbox"/>	✓			
P9 Hypo Tube 12		<input type="checkbox"/>	✓			
P9 Hypo Tube 13		<input type="checkbox"/>	✓			
P9 Hypo Tube 14		<input type="checkbox"/>	✓			
P9 Hypo Tube 15		<input type="checkbox"/>	✓			
P9 Hypo Tube 16		<input type="checkbox"/>	✓			
P9 Hypo Tube 17		<input type="checkbox"/>	✓			
P9 Hypo Tube 18		<input type="checkbox"/>	✓			
P9 Hypo Tube 19		<input type="checkbox"/>	✓			
P9 Hypo Tube 20		<input type="checkbox"/>	✓			
P9 Hypo Tube 7		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
Modified: 9/8/2016 10:34:56 AM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

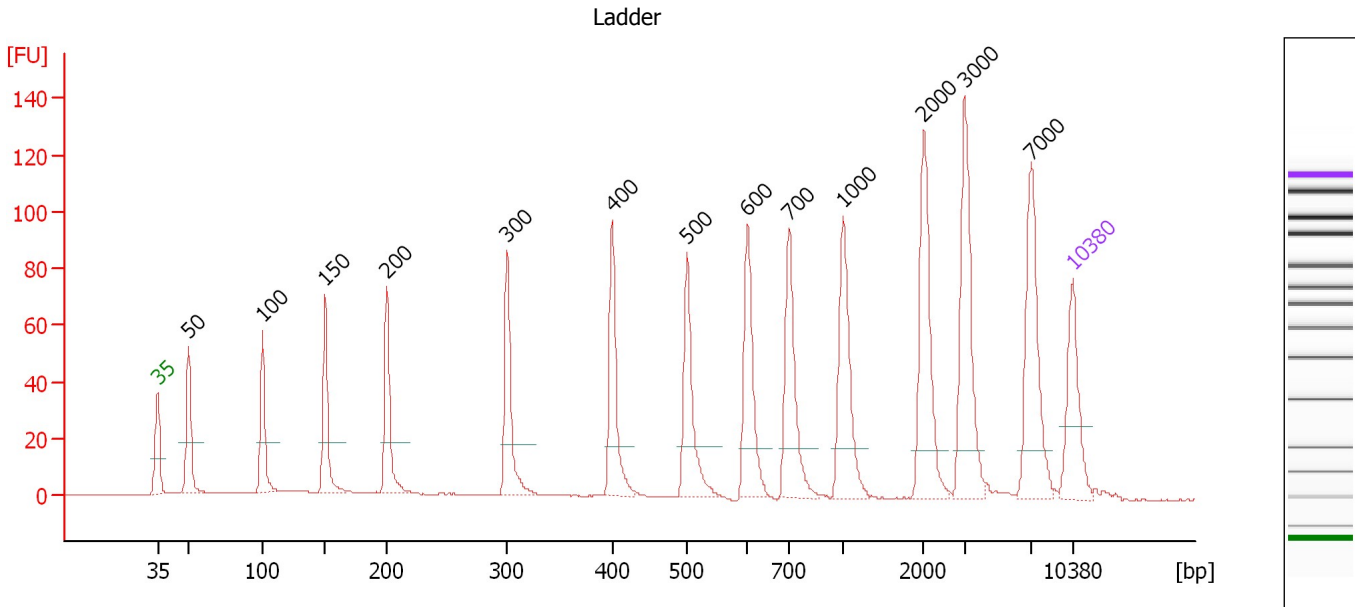
**Ladder**

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

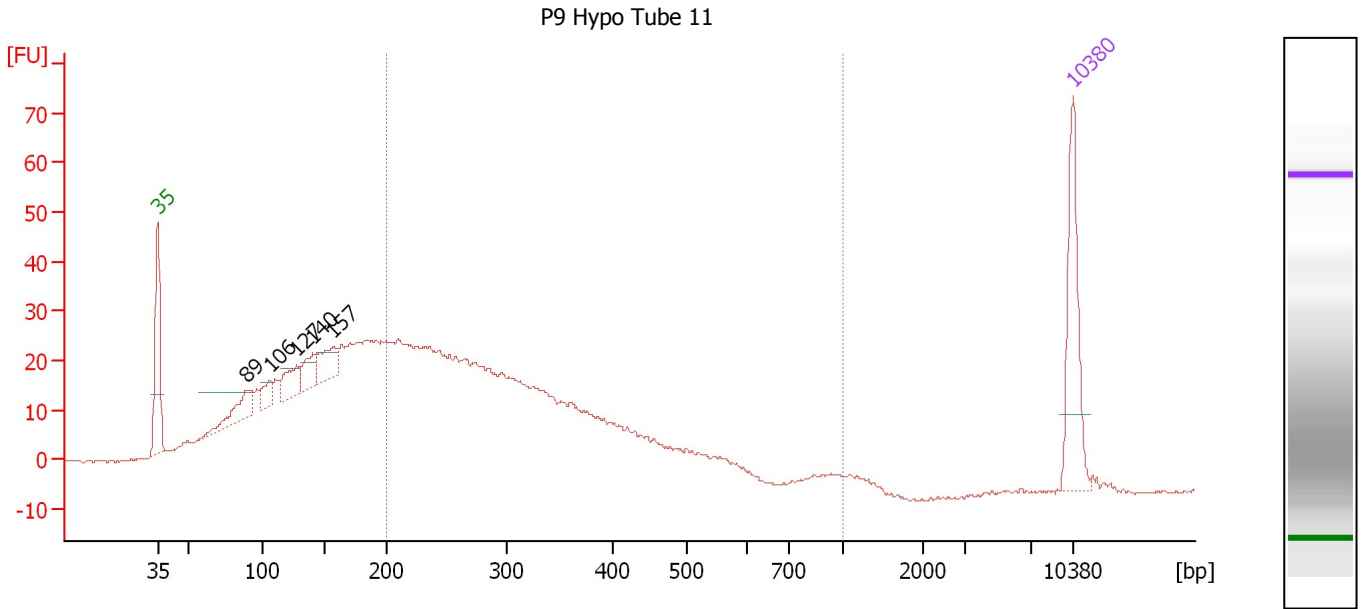
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.37
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.52
6	300	150.00	757.6	Ladder Peak	69.76
7	400	150.00	568.2	Ladder Peak	77.76
8	500	150.00	454.5	Ladder Peak	83.49
9	600	150.00	378.8	Ladder Peak	88.14
10	700	150.00	324.7	Ladder Peak	91.31
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.59
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.87
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : P9 Hypo Tube 11**

Number of peaks found: 5                      Corr. Area 1: 552.7  
 Noise: 0.3

**Peak table for sample 1 : P9 Hypo Tube 11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	89	45.81	783.8		49.75
3	106	22.58	322.9		51.62
4	127	36.12	431.2		53.63
5	140	29.15	315.6		54.87
6	157	38.63	373.7		56.45
7	10,380	75.00	10.9	Upper Marker	113.00

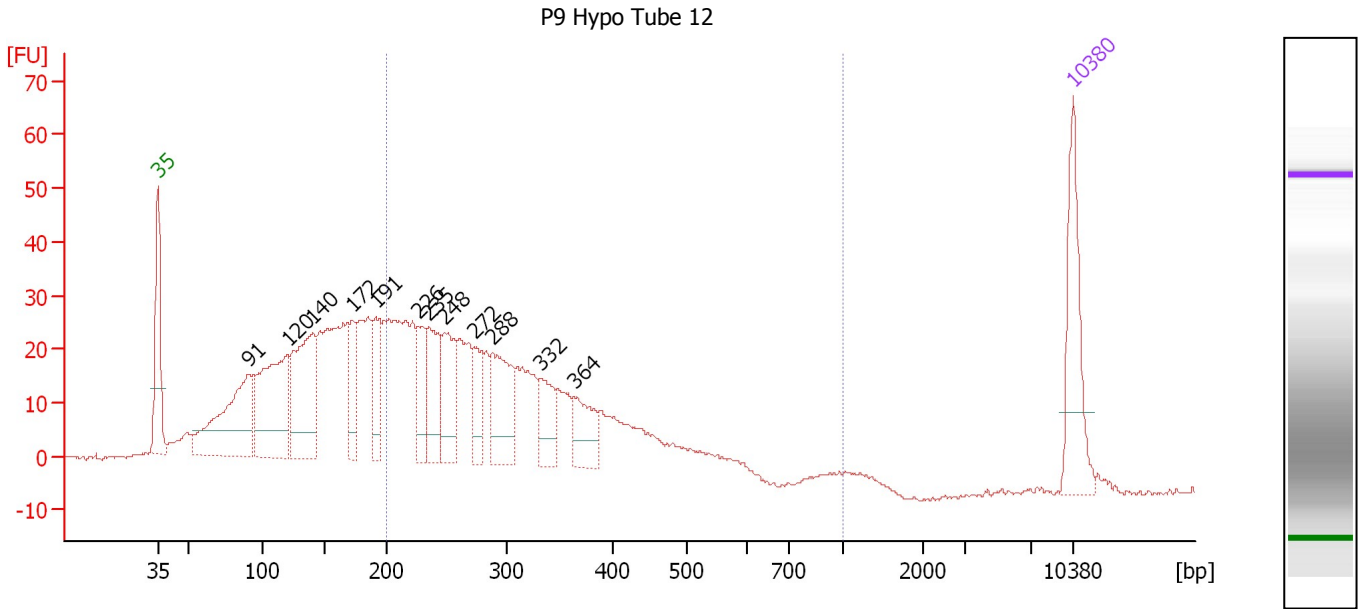
**Region table for sample 1 : P9 Hypo Tube 11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	310	552.7	5,517.9	1,029.39	52	29.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : P9 Hypo Tube 12**

Number of peaks found: 12                      Corr. Area 1: 575.0  
 Noise: 0.2

**Peak table for sample 2 : P9 Hypo Tube 12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	91	183.54	3,060.0		50.01
3	120	190.59	2,410.6		52.95
4	140	161.75	1,752.1		54.87
5	172	56.57	498.4		57.89
6	191	54.48	431.2		59.72
7	226	50.84	341.4		62.89
8	235	79.20	510.7		63.75
9	248	77.21	471.7		64.96
10	272	38.27	212.8		67.21
11	288	94.00	495.3		68.61
12	332	46.26	210.9		72.35
13	364	46.99	195.8		74.85
14	10,380	75.00	10.9	Upper Marker	113.00

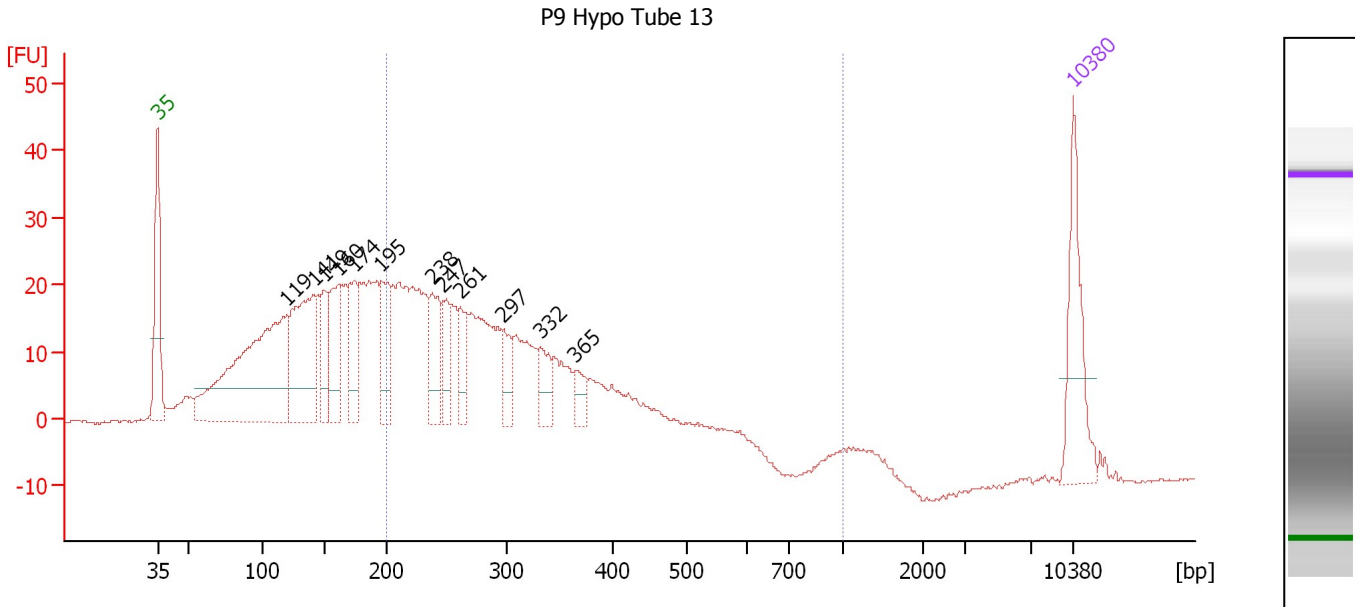
**Region table for sample 2 : P9 Hypo Tube 12**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	307	575.0	5,386.2	1,000.32	51	28.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : P9 Hypo Tube 13**

Number of peaks found: 12                      Corr. Area 1: 455.9  
 Noise: 0.2

**Peak table for sample 3 : P9 Hypo Tube 13**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	119	371.14	4,729.0		52.86
3	141	191.58	2,053.4		55.01
4	149	60.95	621.9		55.69
5	160	93.50	885.8		56.77
6	174	73.73	642.1		58.08
7	195	73.19	567.7		60.09
8	238	66.15	421.0		64.04
9	247	42.53	260.8		64.87
10	261	38.27	221.9		66.19
11	297	32.65	166.7		69.46
12	332	33.81	154.5		72.29
13	365	20.51	85.1		74.97
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : P9 Hypo Tube 13**

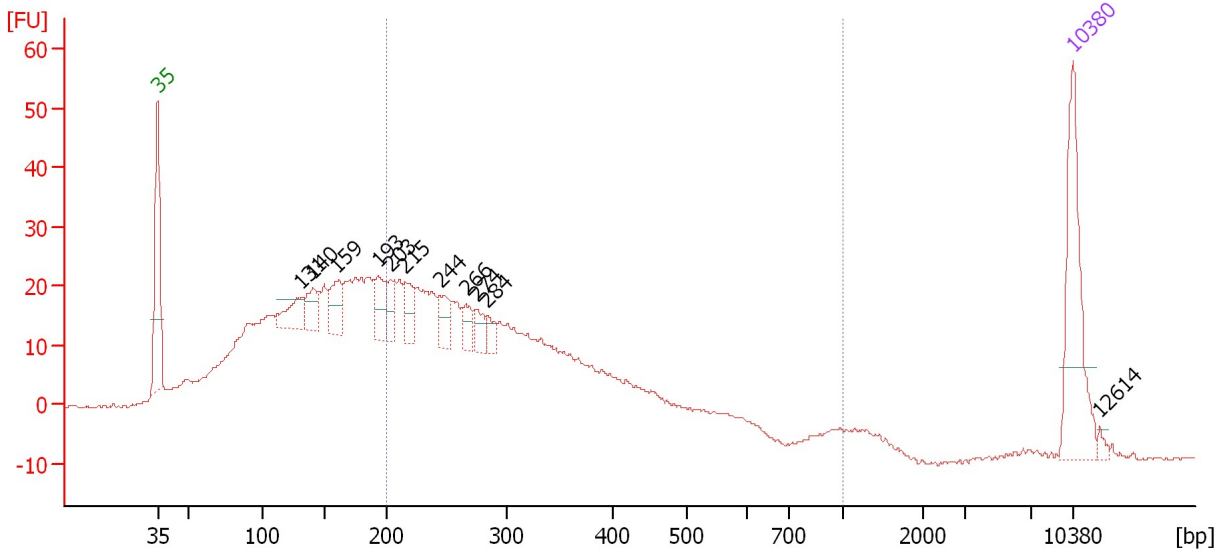
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	305	455.9	5,576.5	1,030.00	50	27.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**

P9 Hypo Tube 14



**Overall Results for sample 4 : P9 Hypo Tube 14**

Number of peaks found: 11                      Corr. Area 1: 482.6  
 Noise: 0.2

**Peak table for sample 4 : P9 Hypo Tube 14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	131	30.59	355.1		53.97
3	140	26.74	288.8		54.90
4	159	29.82	283.3		56.72
5	193	30.40	238.6		59.87
6	203	20.07	149.8		60.81
7	215	21.90	154.1		61.94
8	244	20.83	129.3		64.60
9	266	17.04	97.1		66.61
10	274	16.08	88.8		67.40
11	284	10.09	53.9		68.24
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,614	0.00	0.0		115.07

**Region table for sample 4 : P9 Hypo Tube 14**

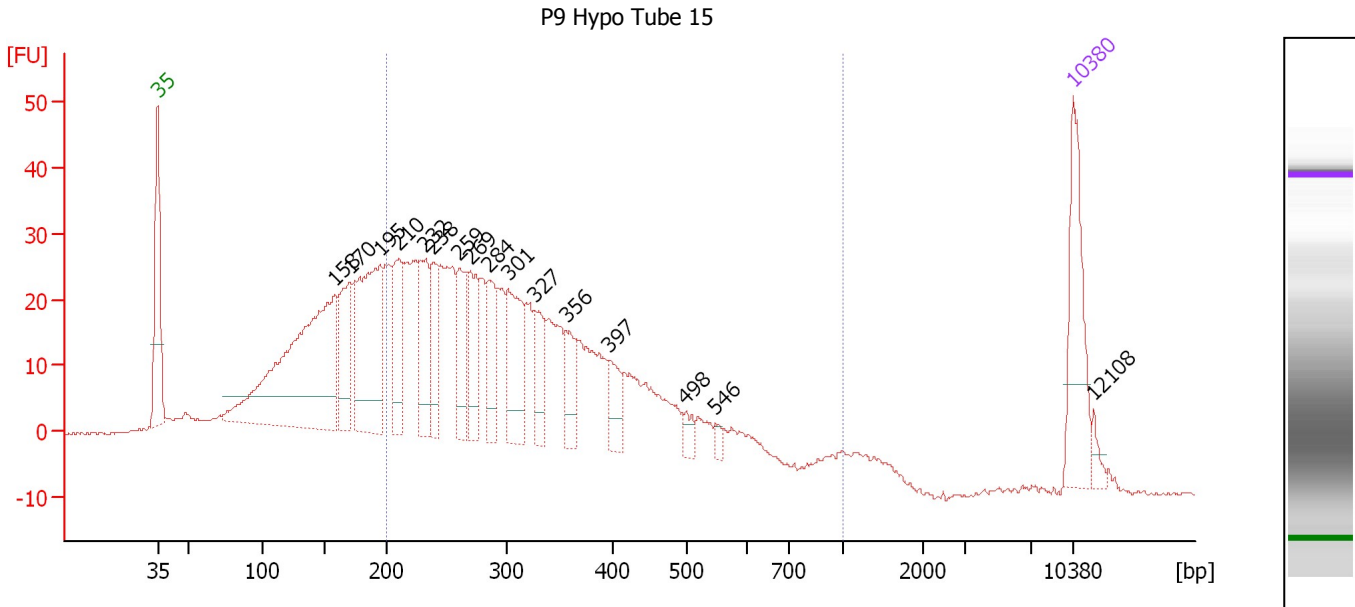
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	309	482.6	4,394.7	816.06	49	30.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P9 Hypo Tube 15**

Number of peaks found: 16                      Corr. Area 1: 700.6  
 Noise: 0.2

**Peak table for sample 5 : P9 Hypo Tube 15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	158	369.51	3,544.5		56.58
3	170	85.82	764.0		57.73
4	195	189.47	1,474.5		60.03
5	210	73.41	528.9		61.47
6	232	70.10	458.0		63.47
7	238	55.59	353.3		64.07
8	259	59.25	346.0		66.02
9	269	60.48	341.1		66.87
10	284	48.94	260.8		68.31
11	301	89.97	453.4		69.81
12	327	41.92	194.3		71.91
13	356	35.83	152.4		74.26
14	397	30.66	117.1		77.50
15	498	11.71	35.6		83.39
16	546	6.43	17.8		85.64
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,108	0.00	0.0		114.60

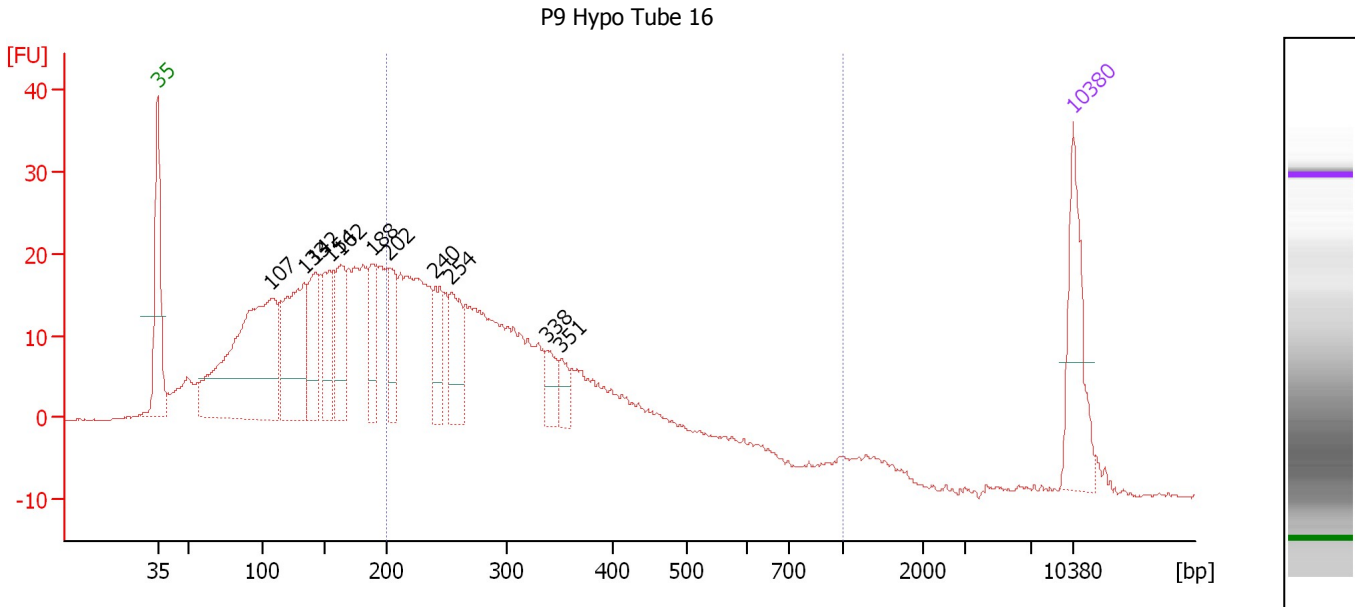
**Region table for sample 5 : P9 Hypo Tube 15**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	324	700.6	7,142.0	1,369.25	63	32.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P9 Hypo Tube 16**

Number of peaks found: 11                      Corr. Area 1: 416.3  
 Noise: 0.2

**Peak table for sample 6 : P9 Hypo Tube 16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	107	376.08	5,346.4		51.68
3	133	181.36	2,069.1		54.19
4	142	88.32	944.2		55.04
5	154	87.86	865.2		56.20
6	162	78.55	732.8		57.00
7	188	64.21	517.2		59.41
8	202	59.45	445.8		60.71
9	240	54.73	346.2		64.18
10	254	74.18	443.1		65.48
11	338	30.63	137.3		72.81
12	351	21.10	91.2		73.81
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : P9 Hypo Tube 16**

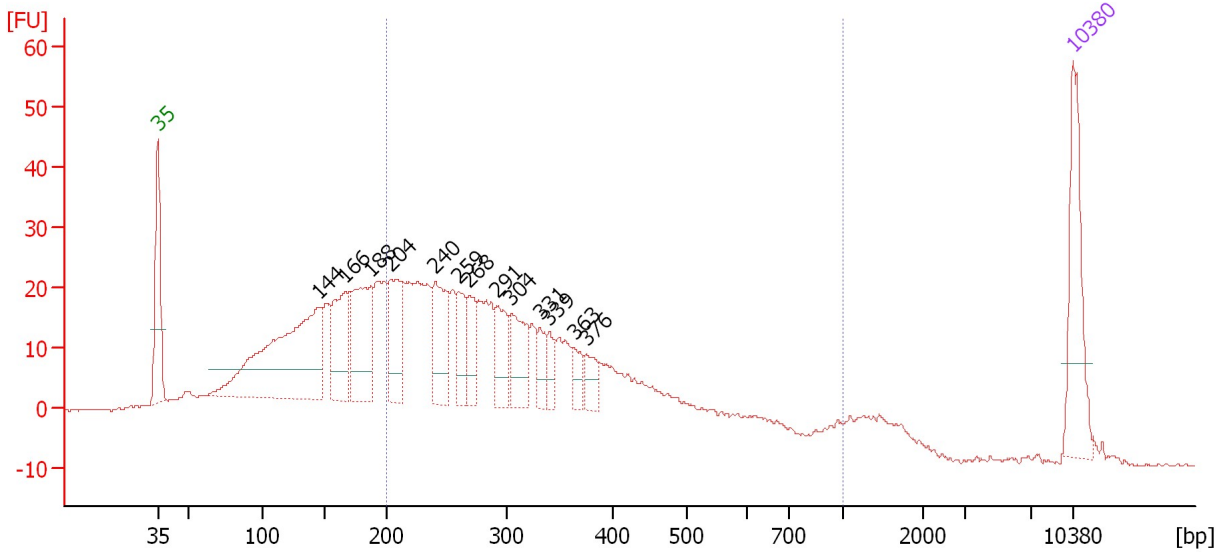
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	309	416.3	5,661.1	1,051.32	48	30.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**

P9 Hypo Tube 17



**Overall Results for sample 7 : P9 Hypo Tube 17**

Number of peaks found: 13                      Corr. Area 1: 555.6  
 Noise: 0.2

**Peak table for sample 7 : P9 Hypo Tube 17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	144	291.08	3,059.0		55.28
3	166	89.44	814.7		57.37
4	188	112.34	907.7		59.35
5	204	79.79	592.9		60.88
6	240	81.62	515.9		64.19
7	259	37.33	218.3		65.98
8	268	40.72	230.3		66.79
9	291	46.03	239.6		68.93
10	304	56.69	282.9		70.05
11	331	21.85	100.0		72.24
12	339	20.34	91.0		72.85
13	363	19.03	79.3		74.84
14	376	22.68	91.5		75.81
15	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : P9 Hypo Tube 17**

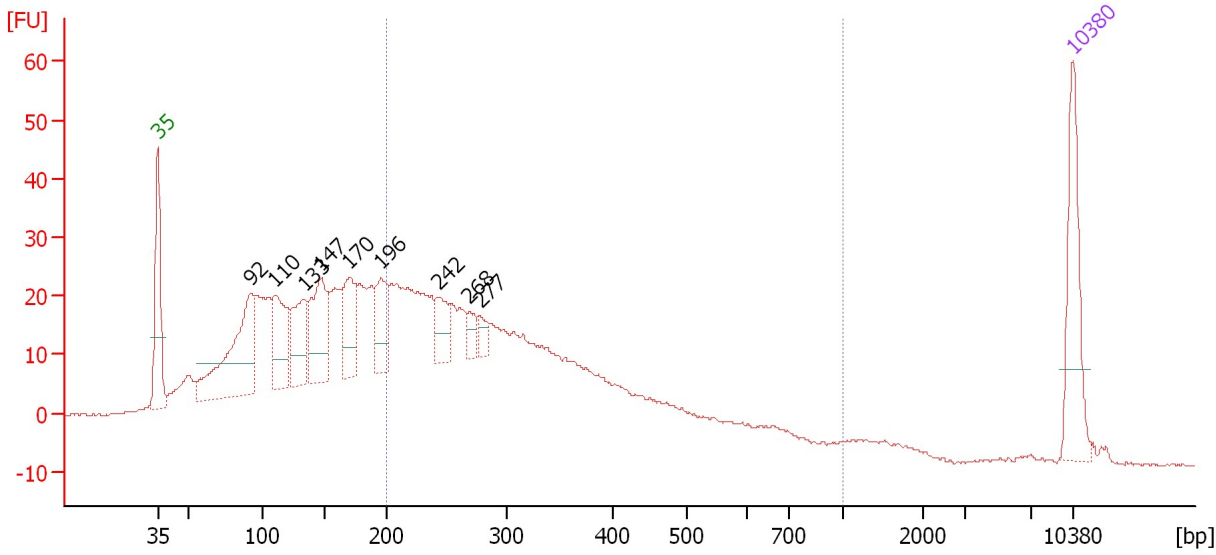
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	329	555.6	5,628.8	1,077.01	58	36.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**

P9 Hypo Tube 18



**Overall Results for sample 8 : P9 Hypo Tube 18**

Number of peaks found: 9                      Corr. Area 1: 483.4  
 Noise: 0.1

**Peak table for sample 8 : P9 Hypo Tube 18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	92	180.89	2,983.1		50.13
3	110	93.90	1,297.6		51.97
4	133	79.72	910.2		54.18
5	147	103.33	1,067.7		55.51
6	170	69.47	620.8		57.67
7	196	54.30	420.3		60.13
8	242	38.51	240.7		64.44
9	268	15.27	86.2		66.85
10	277	16.25	88.8		67.67
11	10,380	75.00	10.9	Upper Marker	113.00

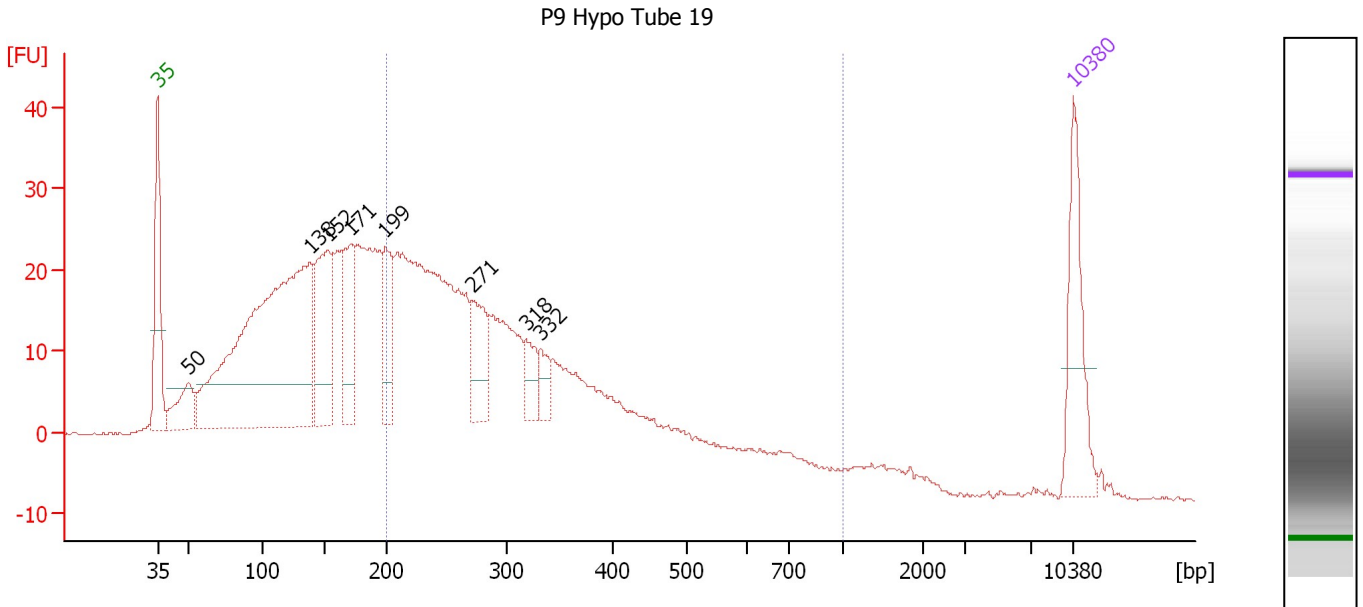
**Region table for sample 8 : P9 Hypo Tube 18**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	312	483.4	5,171.8	964.69	48	30.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : P9 Hypo Tube 19**

Number of peaks found: 8                      Corr. Area 1: 466.7  
 Noise: 0.2

**Peak table for sample 9 : P9 Hypo Tube 19**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	57.08	1,730.6		45.36
3	138	620.46	6,822.7		54.67
4	152	140.71	1,404.5		56.00
5	171	90.25	799.8		57.80
6	199	74.82	569.8		60.42
7	271	65.22	365.0		67.05
8	318	30.51	145.3		71.22
9	332	24.25	110.8		72.30
10	10,380	75.00	10.9	Upper Marker	113.00

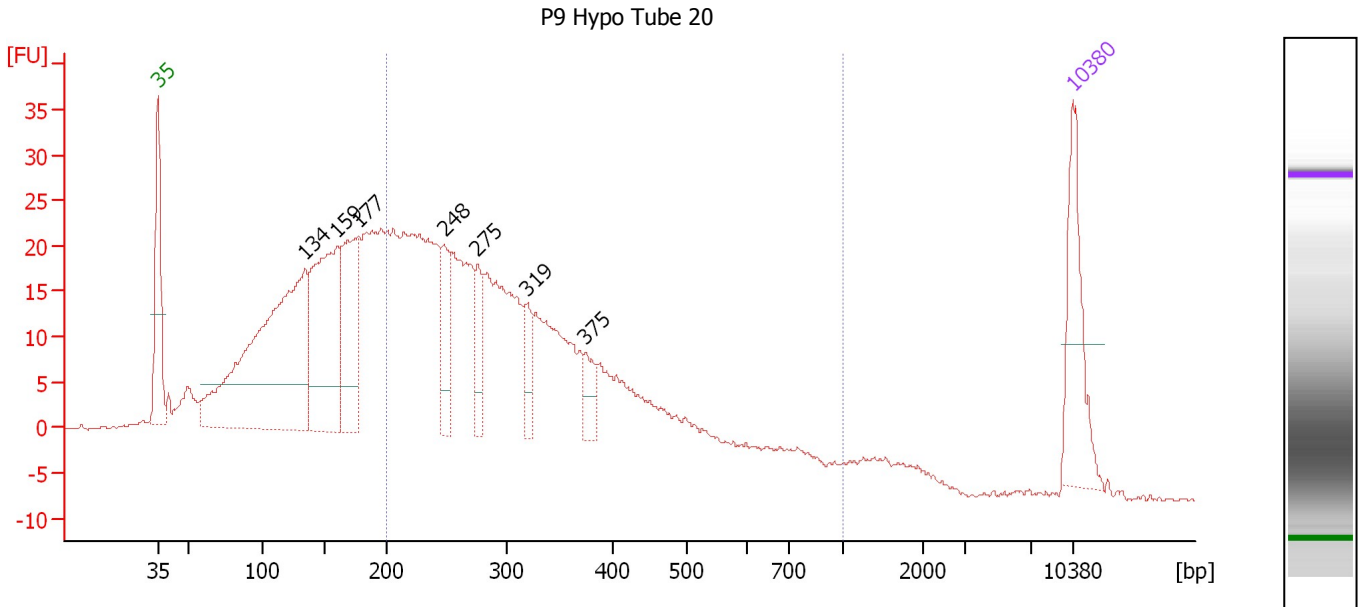
**Region table for sample 9 : P9 Hypo Tube 19**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	312	466.7	6,091.2	1,128.32	47	33.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : P9 Hypo Tube 20**

Number of peaks found: 7                      Corr. Area 1: 503.8  
 Noise: 0.1

**Peak table for sample 10 : P9 Hypo Tube 20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	134	458.99	5,202.9		54.27
3	159	233.28	2,221.1		56.69
4	177	141.88	1,212.8		58.39
5	248	55.22	337.8		64.93
6	275	46.08	253.9		67.45
7	319	32.67	155.3		71.26
8	375	26.40	106.8		75.74
9	10,380	75.00	10.9	Upper Marker	113.00

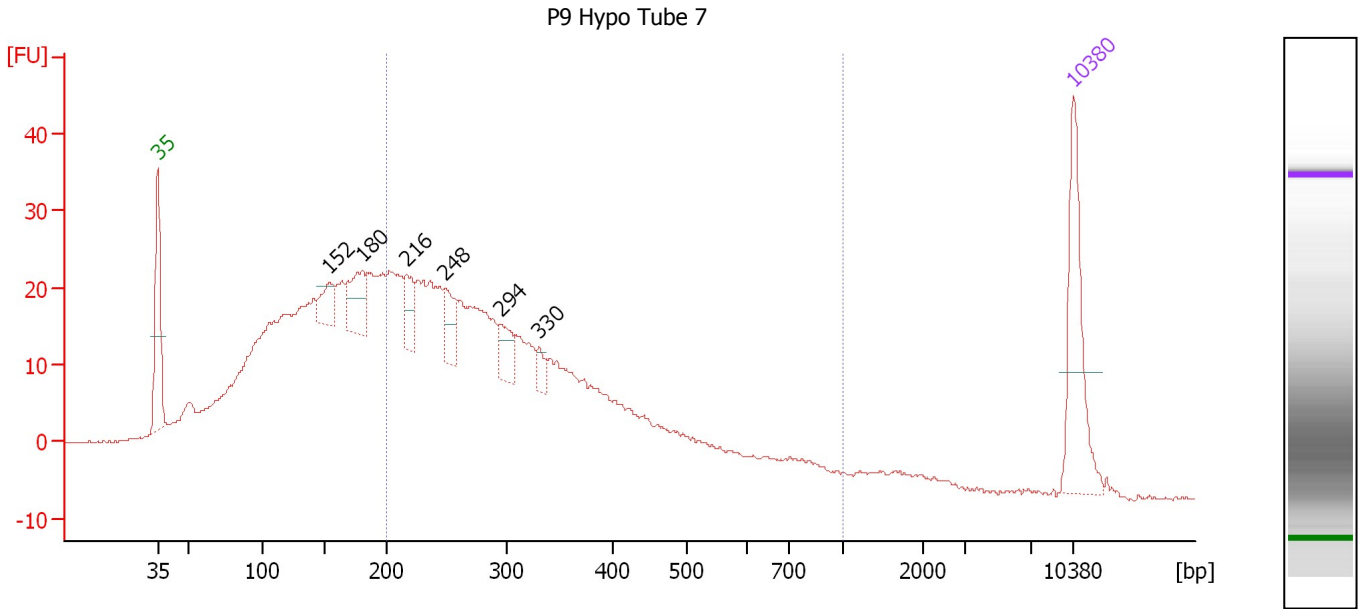
**Region table for sample 10 : P9 Hypo Tube 20**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	317	503.8	6,829.1	1,281.42	54	33.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : P9 Hypo Tube 7**

Number of peaks found: 6                      Corr. Area 1: 486.9  
 Noise: 0.1

**Peak table for sample 11 : P9 Hypo Tube 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	152	27.49	273.5		56.05
3	180	46.53	391.6		58.65
4	216	30.34	213.1		61.98
5	248	29.91	182.4		65.00
6	294	24.79	127.7		69.21
7	330	10.71	49.2		72.18
8	10,380	75.00	10.9	Upper Marker	113.00

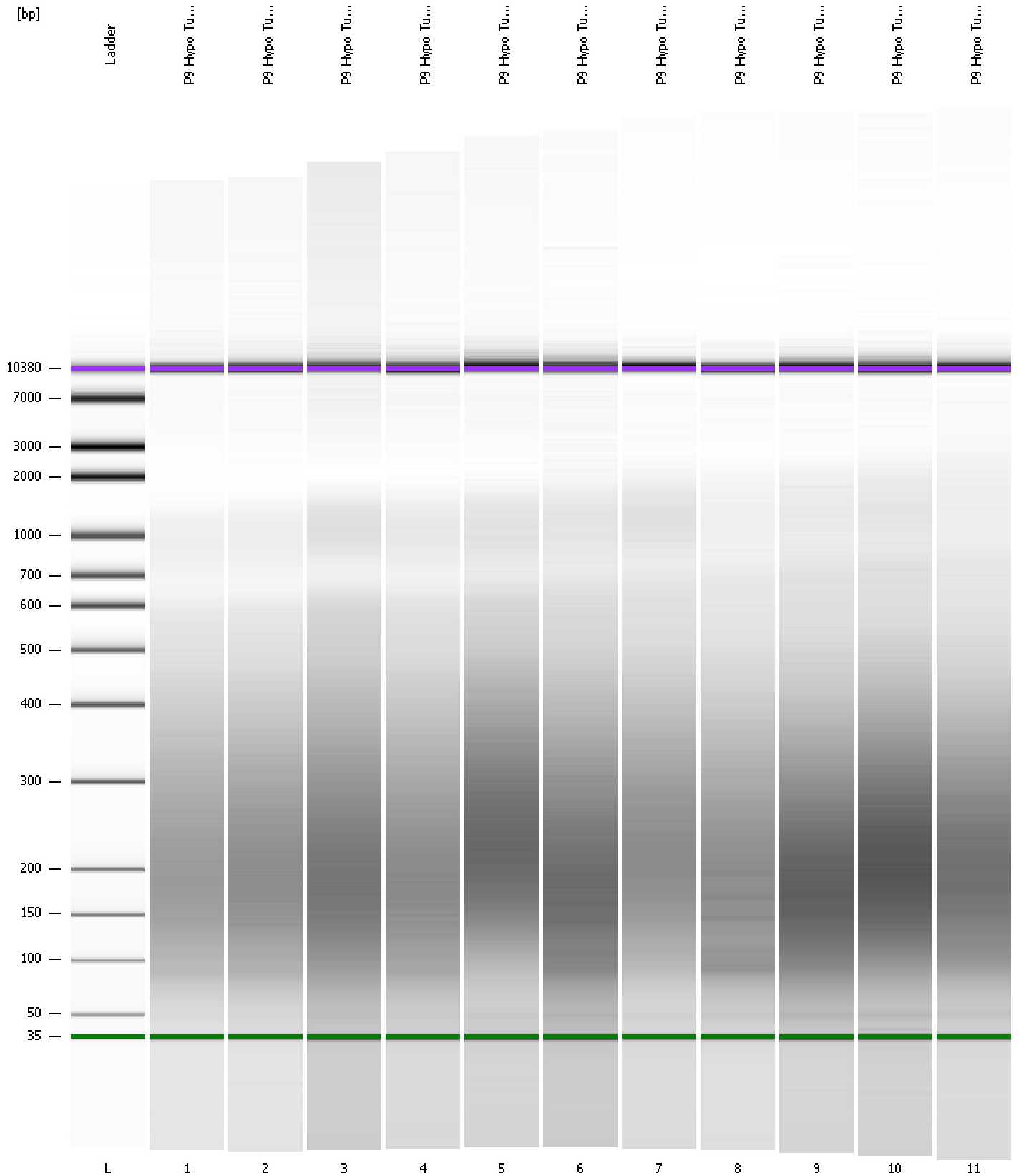
**Region table for sample 11 : P9 Hypo Tube 7**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	316	486.9	5,983.5	1,119.52	52	33.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
Modified: 9/8/2016 10:34:56 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-08\2016-09-08\_001.xad

Created: 9/8/2016 9:53:35 AM  
 Modified: 9/8/2016 10:34:56 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		9/8/2016 10:34:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-09-08\2016-09-08_001.xad)		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/8/2016 9:53:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1